

CLAIMS

I CLAIM:

1. An apparatus comprising:

a personal computer being configured to provide a wireless network connection to a network of said personal computers, the network including an Internet;

the personal computer being further configured to initiate a computer processing operation shared with at least one other said personal computer, and the personal computer also being configured to execute a shared computer processing operation initiated by the at least one other personal computer;

the personal computer including a microchip including a microprocessor with at least a control unit and at least one processing unit, the control unit being configured to allow a user of the personal computer to control the at least one processing unit;

the microchip including a firewall configured to permit access by the at least one other personal computer through the network to the least one processing unit to execute the shared computer processing operation initiated by the at least one other personal computer;

the microchip including a non-volatile memory component;

the microchip including a power management component; and

the microchip including active configuration of at least one circuit integrated into the microchip.

2. The apparatus of claim 1, wherein the firewall is configured during the shared computer processing operation to deny access to the at least one processing unit by the control unit and to the control unit by the at least one other personal computer.

3. The apparatus of claim 1, wherein the firewall is a hardware firewall.
4. The apparatus of claim 1, wherein the microchip includes a control and processing unit.
5. The apparatus of claim 1, wherein the active configuration is provided by the use of field-programmable gate arrays (FPGAs).
6. The apparatus of claim 1, wherein the active configuration is provided by the use of a micro electromechanical system (MEMS).
7. The apparatus of claim 1, wherein the active configuration is used to configure said firewall.
8. The apparatus of claim 1, wherein the control unit is controlled by the use of a remote controller.
9. The apparatus of claim 1, wherein the personal computer includes one or more of a telephone, a radio, a pager, a handheld personal digital assistant, a wearable computer, a digital signal processor, an entertainment device, a game, a videocam, an optical data recording device, a camera, a household electronic device, a business electronic device, and an automobile.

10. The apparatus of claim 1, wherein the personal computer is configured to establish a direct wireless connection to the at least one other personal computer within a local cluster of personal computers.

11. The apparatus of claim 1, wherein the microchip includes more than one said processing units.

12. The apparatus of claim 1, wherein the microchip includes a network communications component.

13. The apparatus of claim 1, wherein the microchip includes a flash memory component.

14. The apparatus of claim 1, wherein the flash memory component includes a BIOS (basic input/output system) of the personal computer.

15. The apparatus of claim 1, wherein the microchip includes a sound component of the personal computer.

16. The apparatus of claim 1, wherein the microchip includes a graphics component of the personal computer.

17. The apparatus of claim 1, wherein the microchip includes a video processing component of the personal computer.

18. The apparatus of claim 1, wherein the microchip includes an analog component of the personal computer.

19. The apparatus of claim 1, wherein the microchip includes a modem component of the personal computer.

20. The apparatus of claim 1, wherein the personal computer includes more than one said microprocessors.

21. The apparatus of claim 1, wherein the personal computer includes at least four said microprocessors.

22. The apparatus of claim 1, wherein the personal computer includes at least sixteen said microprocessors.

23. The apparatus of claim 1, wherein the personal computer includes at least sixty-four said microprocessors.

24. The apparatus of claim 1, wherein the network includes a World Wide Web.

25. The apparatus of claim 1, wherein the network includes an Intranet.